

Maryland Streams Roundtable February 19, 2016



Partners

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Izaak Walton League of America

Save Our Streams

- •Nationwide: macroinvertebrate field identification at class/order/family level and basic habitat information
- •Maryland: ~60 volunteers, ~20 sites, 2-4 sampling events per year

MD Groups Using SOS Protocols

•IWLA chapters in Montgomery and Harford Counties, City of Gaithersburg, City of Rockville, Savage River Watershed Association, and Muddy Branch Alliance

Databases & Resources

www.iwla.org/sos www.creekfreaks.net





Izaak Walton League of America

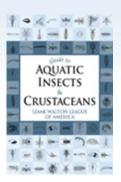
Step 1



Step 2



Step 3



SENSITIVE Caddisflies (except net spinners) Mayflies Stoneflies Watersnipe flies Riffle beetles Water pennies Gilled snails	LESS SENSITIVE Dobsonflies Alderflies Fishflies Crayfish Common Scuds net spinning Aquatic Caddisflies sowbugs Crane flies Clams Damselflies Mussels Dragonflies	TOLERANT Aquatic worms Black flies Midge flies Leeches Lunged snails
# of letters multiplied by 3 =	# of letters multiplied by 2 =	# of letters multiplied by 1 =

Compare the final index value to the following ranges of numbers to determine the water quality of the stream sample site.

Water Quality Rating

____ Excellent (> 22)

__ Good (17-22)

____ Fair (11-16)

__ Poor (< 11)

or the

Citizen Science and Nontraditional Monitoring Project Objectives

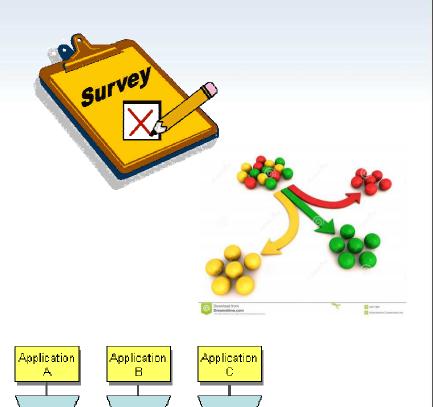
- Expand volunteer and nontraditional monitoring in the Chesapeake Bay watershed
- Provide standardized technical support to ensure high-quality data collection
- Integrate citizen collected data into the Chesapeake Bay Program Partnership's monitoring network

- Inform Bay restoration decision-making
- ► Track local river trends
- **Engage** local communities



How will we meet these objectives?

- Inventory
- Survey
- Engage
- Classify
- Identify data gaps
- Develop a database
- Train
- Provide resources



Shared Data



Types of Data

- Water quality/chemistry
- Biological macroinvertebrates and submerged aquatic vegetation
- Physical habitat and stream bank assessments









Tiered Framework for Data Classification

- First non-traditional data integration project at the federal level.
- Look to states for models of data integration (thank you Virginia, Missouri, Michigan, Alabama, and Indiana).







Tiered framework

Tiers	Intended Data Use
Tier 1	Education, Environmental Health Screening
Tier 2	Environmental Health Report Cards, Environmental Health Screening, Targeting of Management Actions
Tier 3	Regulatory Assessments of Water Quality Standards Attainment

Hidden Tier Zero – there are data requirements that must be met to be included in this project.

Opportunities for you!

- See me to check that you are included in the monitoring group inventory
- Participate in the survey
- Attend trainings for monitoring methods, database submission, and communication tools
- Join the Volunteer Advisory
 Committee to provide input on monitoring protocols, database development, and data evaluation tools





Contact Information

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